

Claims

The invention claimed is:

1. A surgical targeting system for adding an indicia image to a radiographic image of a body resulting from passage of image radiation through the body, said targeting system comprising:

5 an antimicrobial <sup>surgical fix net mesh</sup> drape having an inner surface of sufficient flexibility to conform to at least a portion of an outer surface of the body, said drape being puncturable to provide access to the outer surface of the body, said drape being transparent to the imaging radiation;

10 an indicia affixed to a portion of said drape, said indicia being opaque to the imaging radiation resulting in the indicia image corresponding to said indicia; and

15 a means for fixing said indicia relative to the outer surface of the body such that said indicia provides a reference on the body for correlating portions of the body to the radiographic body image.

*Suggestion* 2. ~~The surgical targeting system of claim 1 wherein said drape comprises plastic impregnated with iodophor.~~ *Said drape and fixing means being sufficiently pliable to enable puncturing of drape to create access to body + enabling increased size during surgery*

3. The surgical targeting system of claim 1 wherein said indicia comprises coordinates which are rectilinear and orthogonal.

4. The surgical targeting system of claim 1 wherein said indicia comprises polar coordinates.

*therein through opening increased size of opening*  
*Increased size of opening*

001240" 00000000

*Sub B1*

5. The surgical targeting system of claim 1 wherein said fixing means comprises adhesive applied to said inner surface of said drape.

6. The surgical targeting system of claim 5 wherein said adhesive is applied continuously to the entire inner surface of said drape.

7. The surgical targeting system of claim 1 wherein said drape comprises a cylindrical portion.

8. The surgical targeting system of claim 7 wherein said drape comprises an end portion connected to and closing one end of said cylindrical portion, said end portion being hemispherical.

9. The surgical targeting system of claim 1 wherein said drape is conical.

10. The surgical targeting system of claim 9 wherein said indicia comprises a system of polar coordinates having a center coinciding with an apex of said drape.

11. A system for providing a sterile field around an elongate body comprising:

an antimicrobial drape having a cylindrical portion and an end portion connected to and closing one end of said cylindrical portion, said end portion being hemispherical, said drape having sufficient flexibility to conform to at least a portion of an outer surface of the elongate body, said drape being puncturable to

5

10 provide access to the outer surface of the body;  
and

means for fixing said drape to the outer  
surface of the body, said drape and fixing means  
being sterile to provide a sterile field around  
15 the outer surface of the body accessed by  
puncturing of said drape.

*sterile field*  
12. The ~~surgical targeting~~ system of claim 11 wherein  
said drape comprises plastic impregnated with  
iodophor.

13. The sterile field system of claim 11 wherein said  
fixing means comprises adhesive applied to the  
surface of said drape which contacts the outer  
surface of the body.

*independent*

14. The sterile field system of claim 11 wherein said  
fixing means comprises forming said drape of  
expandable material and sizing said drape to have  
an internal volume which is less than the volume  
5 of the elongate body enabling said drape to be  
shrink-fitted onto the body.

15. The sterile field system of claim 11 wherein said  
drape is transparent to imaging radiation,  
said sterile field system further comprising  
an indicia affixed to a portion of said drape,  
5 said indicia being opaque to the imaging  
radiation such that a radiographic image of the  
body resulting from passage of the image  
radiation through the body includes an indicia  
image corresponding to said indicia,

09553683-042100

10

said fixing means fixing said indicia relative to the outer surface such that said indicia provides a reference on said body for correlating portions of the body to the radiographic image thereof.

16. A system for providing a sterile field around a conical body comprising:

5

a conical antimicrobial drape having sufficient flexibility to conform to at least a portion of an outer surface of the elongate body, said drape being puncturable to provide access to the outer surface of the body; and

10

means for fixing said drape to the outer surface of the body, said drape and fixing means being sterile to provide a sterile field around the outer surface of the body accessed by puncturing of said drape.

- Q 17. The <sup>sterile field</sup> ~~surgical targeting~~ system of claim 16 wherein said drape comprises plastic impregnated with iodophor.

18. The sterile field system of claim 16 wherein said fixing means comprises adhesive applied to the surface of said drape which contacts the outer surface of the body.

*Indep. 19.*

19. The sterile field system of claim 16 wherein said drape has a radial cutout having a base which coincides with a peripheral edge of said drape.

09553683-042100

20. The sterile field system of claim 16 wherein said drape is transparent to imaging radiation,

5 said sterile field system further comprising an indicia affixed to a portion of said drape, said indicia being opaque to the imaging radiation such that a radiographic image of the body resulting from passage of the image radiation through the body includes an indicia image corresponding to said indicia,

10 said fixing means fixing said indicia relative to the outer surface such that said indicia provides a reference on said body for correlating portions of the body to the radiographic image thereof.

21. The sterile field system of claim 20 wherein said indicia comprises a system of polar coordinates having a center coinciding with the apex of said drape.

22. A method for correlating a selected portion of a body to a radiographic image of the body for treatment of the body, said method comprising the steps of:

5 applying a radio-transparent drape having radio-opaque indicia to the body;

fixing said drape and indicia to the body;

10 directing imaging radiation through said drape and indicia such that a radiographic image of said body and indicia is formed on a medium;

referencing on the radiographic image the selected portion of the body relative to the indicia;

005363-042100

15 locating the selected portion of the body by  
referencing the body relative to the indicia on  
the drape in a manner corresponding to said  
referencing of the radiographic image; and  
puncturing the drape to access the body for  
treatment thereof.

*Performing  
increasing  
size during  
5 step.*

*Good suggestion, need for*

23. The method of claim 22 and further comprising the  
steps of:

referencing a second selected portion of the  
body on the radiographic image relative to the  
indicia on the radiographic image; and

10 locating the second selected portion of the  
body by referencing the body relative to the  
indicia on the drape in a manner corresponding to  
said referencing of the second selected portion of  
the radiographic image.

24. The method of claim 22 wherein said applying step  
comprises placing the drape on the body such that  
the body is disposed between at least two portions  
of the indicia, said placing of the drape further  
5 providing that each said portion of the indicia is  
contained in a separate plane which is in parallel  
separation to the other plane.

25. The method of claim 22

wherein said applying step comprises placing  
the drape on the body such that the body is  
disposed between at least two portions of the  
5 indicia,

wherein said referencing step comprises  
identifying on the radiographic image the portions

001240" E89E560

of the indicia intersected by an axis coinciding  
with a selected direction through the body,

10            wherein said locating step comprises locating  
the selected direction through the body by  
referencing the body relative to the portions of  
the indicia on the drape identified in said  
referencing of the radiographic image;

15            wherein said puncturing step comprises  
puncturing the drape to access the body adjacent  
to at least one of the portions of the indicia.

*add all*

*add D' >*

007240 8892560